

GILLNET HAUL LOG

This log contains detailed questions about the setting and hauling of gear, and the haul's catch. Complete a new log after each hauling of gear. If you feel that you cannot go on deck for weather related safety reasons, record as much information on this log as possible (*i.e.* Header Information, weather, depths, times, positions, *etc.*).

The Species Information section of this log should be used to record catches of groundfish species, debris and shells according to the sampling protocol being followed on that particular trip.

Complete Fish Sampling Trips: The observer will record complete catch data, *i.e.* both kept and discarded information, for all hauls on "complete fish sampling" gillnet trips. All hauls on these trips will be recorded as observed, and all kept and discarded catch recorded. In addition, biological sampling of the entire catch will occur after **every haul**, with an emphasis placed on sampling discarded species.

Limited Fish Sampling Trips: The observer will record only the kept catch for all hauls on "limited fish sampling" gillnet trips. All hauls on these trips will be recorded as unobserved as the observer will conduct marine mammal, sea turtle, and debris haul watches. In addition, biological sampling of the kept catch will occur after the **last haul only**.

For more information, refer to the Fishery Sampling Priority Section of the NEFSC Observer Program Biosampling Manual.

If any pelagic species (*i.e.* swordfish, billfish, large tuna species, sharks, *etc.*), sturgeons, rays or tagged fish are caught by the gear, an Individual Animal Log must be completed to provide information on each animal. This is true for both limited AND complete fish sampling trips. This Gillnet Haul Log will serve as a cover sheet for any Individual Animal Log(s) corresponding to this haul that may follow. All marine mammals, sea turtles and sea birds caught by the gear must be recorded on a Marine Mammal, Sea Turtle, and Sea Bird Incidental Take Log. See Appendix R. Species List and Corresponding Logs for a list of species and the log(s) on which to record them.

If there are insufficient lines on one form for all species caught in this haul, continue listing species on an additional Gillnet Haul Log, making sure to com-

plete all of the Header Information (A-C) and HAUL NUMBER (E).

If information is unavailable or unknown to any question except a "No/Yes" question, record a dash (-) in the field. If the answer to a "No/Yes" question is unknown, record a "9" on the line next to the code for "No" to indicate that a field was not skipped, but the answer is unknown. If a field relates to a question to which you previously answered "No", leave the field blank.

Become familiar with the following definitions.

DEFINITIONS

Set Begin: First component of gillnet deployed.

Set End: Gillnet secured to anchoring device or completely deployed.

Haul Begin: Hauling equipment put into gear or retrieval of gear commences.

Haul End: Gillnet completely retrieved and aboard vessel.

INSTRUCTIONS

For instructions on completing fields **A-W**, refer to the Common Haul Log Data section of the NEFSC Observer Program Manual.

1. GEAR NUMBER: Record the gear number used for this haul as uniquely identified on the appropriate Gillnet Gear Characteristics Log.

2. MARINE MAMMAL HAUL WATCH?: Record whether a marine mammal, sea turtle, and debris haul watch is conducted during this haul by placing an "X" next to the appropriate code:

0 = No.

1 = Yes.

NOTE: These watches will be conducted during **every** haul of a "limited fish sampling" trip.

3. DEPTH, LEADLINE: Record, in whole fathoms, the depth from the surface, at which the leadline fishes for this haul. This range may be calculated by

adding the gear dropline length(s) to the net height.

NOTE: If the gear fishes on the bottom, sink gillnets for example, the value recorded in this fields should equal WATER DEPTH (M).

SET/HAUL INFORMATION

Set Information for the next 3 fields (#'s 4, 5 and 6):

If the set is witnessed, record Set BEGIN/END DATES and BEGIN/END TIMES but **not** SOAK DURATION. If the set is not witnessed, fill in SOAK DURATION **only**.

4. BEGIN/END DATE: Record the month, day, and year, based on local time, that this set began and ended. If the setting of the gear is not witnessed do not complete this field, instead, complete SOAK DURATION (#6). Record the month, day, and year, based on local time, that this haul began and ended.

5. BEGIN/END TIME: Record the local time, using the 24 hour clock (0000-2359), that this set began and ended, *i.e.* when the first component of the gillnet is deployed (Set Begin) and when the string is secured to an anchoring device, or completely deployed (Set End). If the setting of the gear is not witnessed do not complete this field, instead, complete SOAK DURATION (#6) and record the estimated set times in COMMENTS. Record the local time, using the 24 hour clock (0000-2359), that this haul began and ended, *i.e.* when the hauling equipment is put into gear or retrieval of gear commences (Haul Begin), and when the gillnet is completely retrieved and aboard the vessel (Haul End).

NOTE: Record the set times of the majority of the nets in the string.

6. SOAK DURATION: Record, to the nearest tenth of an hour, the amount of time that the gear for this haul is in the water fishing. This is the amount of time from when the string is secured to an anchoring device, or completely deployed (Set End), until when the hauling equipment is put into gear or retrieval of gear commences (Haul Begin). Obtain this time from the captain. If the setting of the gear is witnessed do not complete this field, instead, complete SET BEGIN DATES and TIMES (#'s 4 and 5).

NOTE: Record estimated set times used to calculate SOAK DURATION in

COMMENTS.

7. END WATER TEMPERATURE: Record, to the nearest tenth of a degree Fahrenheit, the surface sea water temperature when this haul **ended**.

NOTE: If this temperatures is obtained in Celsius, use Appendix Q. Conversion Tables to convert it to Fahrenheit.

NOTE: Use a "ScoopMaster" thermometer to obtain this temperature.

NOTE: Especially if an incidental take occurs in this haul, a HAUL END WATER TEMPERATURE **must** be recorded.

8. GEAR CONDITION: Indicate the condition of the gear at haulback, even if this was the condition of the gear when set, by recording the most appropriate two digit code listed below, and in Appendix J. Gear Condition Codes:

- 00 = Unknown.
- 21 = No gear damage, or very few small, scattered holes.
- 22 = Small number of torn meshes, not exceeding 25% of any one net, each net may be torn slightly.
- 23 = Less than 50% of the nets have less than 50% of the meshes torn.
- 24 = 50% or more of the nets have less than 50% of the meshes torn.
- 25 = Less than 50% of the nets are obstructed by a large object.
- 26 = 50% or more of the nets are obstructed by a large object.
- 27 = Less than 50% of the nets have 50% or more of the meshes torn.
- 28 = 50% or more of the nets have 50% or more of the meshes torn.
- 29 = Nets in the string totally balled up.
- 99 = Other, specify in COMMENTS.

NUMBER OF NETS

9. SET: Record the **total** number of nets that are used for this set. This number should agree with the number recorded in NUMBER OF NETS on the corresponding Gillnet Gear Characteristics Log(s).

10. HAULED: Record the **total** number of nets that are hauled back from this set. If a net is partially hauled,

round this number to the nearest whole net.

Example: If 200 feet of a 300 feet net is hauled record one net hauled.

NOTE: Record a zero "0" if less than half of one net of a string is hauled.

11. LOST: Record the **total** number of nets that are lost from this set. If this number differs from NUMBER OF NETS SET minus NUMBER OF NETS HAULED record the reason(s) in COMMENTS.

NUMBER OF MARINE MAMMAL DETERRENT DEVICES

ACTIVE:

An "active" marine mammal deterrent device is a device which emits sound which may be detected by a marine mammal.

12. HAULED: Record the number of active marine mammal deterrent devices (*i.e.* pingers) on the gear as it is hauled. This number should agree with the number recorded in NUMBER OF ACTIVE MARINE MAMMAL DETERRENT DEVICES USED on the corresponding Gillnet Gear Characteristics Log(s).

NOTE: If gear is partially hauled, record the number of marine mammal deterrent devices **only on** the portion of gear hauled.

NOTE: These numbers should reflect the number of these devices on the gear regardless of whether or not it is believed these devices are actually working. Information of this nature should be recorded in the COMMENTS.

13. LOST: Record the number of active marine mammal deterrent devices (*i.e.* pingers) lost from this set. If this number differs from NUMBER OF ACTIVE MARINE MAMMAL DETERRENT DEVICES USED minus NUMBER OF ACTIVE MARINE MAMMAL DETERRENT DEVICES HAULED, then record the reason(s) in COMMENTS.

NOTE: Do not include devices not seen because gear was partially hauled.

PASSIVE:

A "passive" marine mammal deterrent device is a device which may provide reflection of marine mammal

echolocation signals.

14. HAULED: Record the number of passive marine mammal deterrent devices on the gear as it is hauled. This number should agree with the number recorded in NUMBER OF PASSIVE MARINE MAMMAL DETERRENT DEVICES USED on the corresponding Gillnet Gear Characteristics Log(s).

Example: Net material that is designed to be more acoustically visible to marine mammals.

NOTE: If some or all of the nets in the gear are made from material that is designed to be more acoustically visible to marine mammals, record the **number of nets** within the gear made from this material.

NOTE: If gear is partially hauled, record the number of marine mammal deterrent devices **only on** the portion of gear hauled.

15. LOST: Record the number of passive marine mammal deterrent devices lost from this set. If this number differs from NUMBER OF PASSIVE MARINE MAMMAL DETERRENT DEVICES USED minus NUMBER OF PASSIVE MARINE MAMMAL DETERRENT DEVICES HAULED, then record the reason(s) in COMMENTS.

NOTE: Do not include devices not seen because gear was partially hauled.

16. SET METHOD: Record the method that best describes the manner in which the gear for this haul was set by placing an "X" next to the appropriate code:

- 00 = Unknown.
- 01 = Temperature.
- 02 = Bottom Contours (*i.e.* depth).
- 03 = Compass/ Loran.
- 04 = Tide/ Current.
- 05 = Visual (*i.e.* echosounder, surface feeding).
- 98 = Mixed, (more than one code applies) record all set methods on line 16A.
- 99 = Other, record the set method(s) on line 16A.

COMMENTS

Record any additional information regarding this haul, *i.e.* unusual species caught, levels of bycatch, *etc.*

If more room is needed, use the back of this log, making sure to write "See Back" on the front of the log. Reference each comment with its corresponding field name.